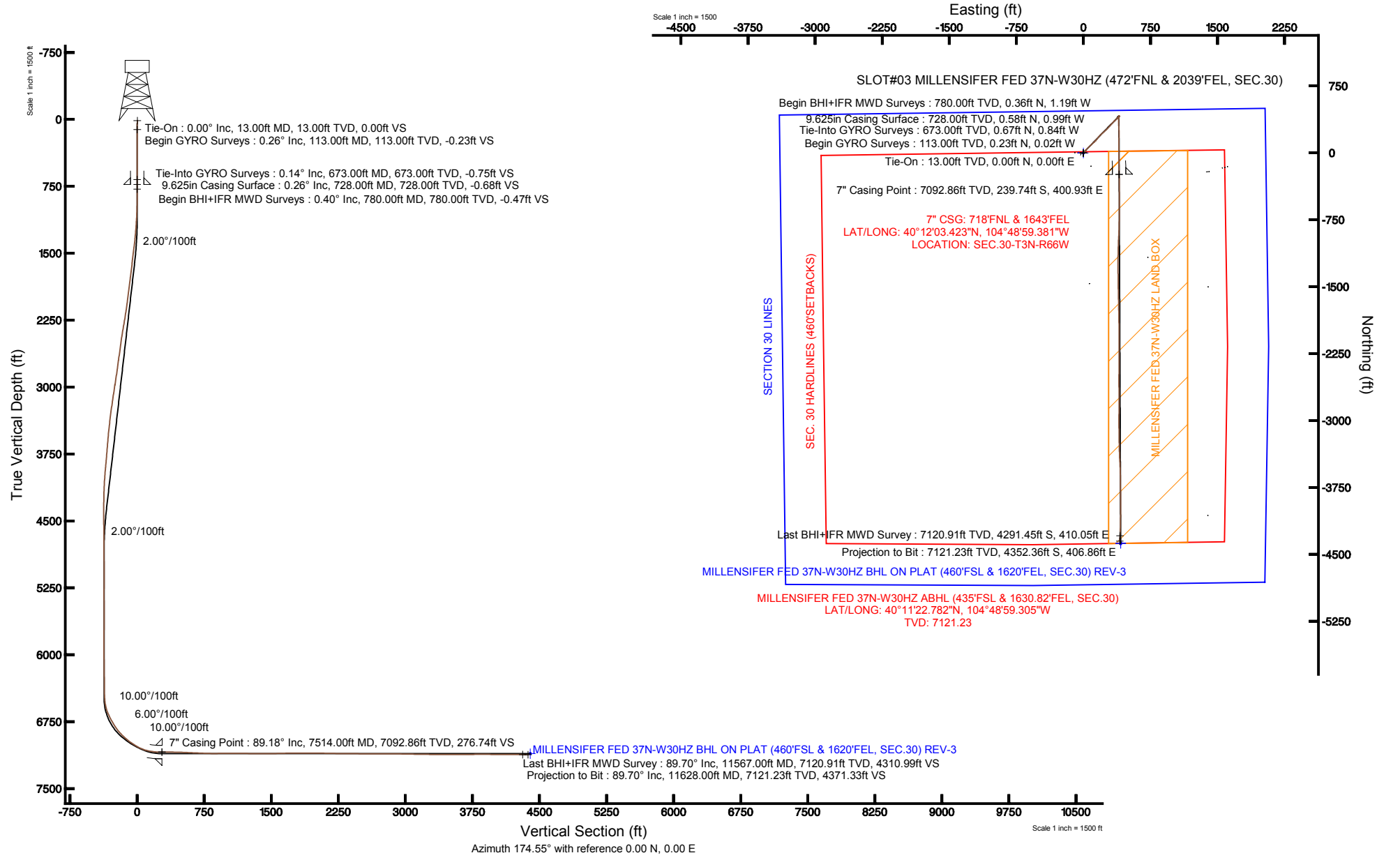


KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30)
 Field: WELD COUNTY (KERR MCGEE) Well: MILLENSIFER FED 37N-W30HZ
 Facility: SEC.30-T3N-R66W Wellbore: MILLENSIFER FED 37N-W30HZ PWB

Plot reference wellpath is MILLENSIFER FED 37N-W30HZ (REV-C.0) PWP

True vertical depths are referenced to ENSIGN 138 (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to ENSIGN 138 (RKB)	North Reference: True north
ENSIGN 138 (RKB) to Mean Sea Level: 4841 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: wlsje02 on 2/22/2013





Actual Wellpath Report

MILLENSIFER FED 37N-W30HZ AWP
Page 1 of 7



REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-W30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-W30HZ AWB
Facility	SEC.30-T3N-R66W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.2
North Reference	True	User	Wilsjef02
Scale	0.999957	Report Generated	2/22/2013 at 13:26:25
Convergence at slot	0.44° East	Database/Source file	WellArchitectDB/MILLENSIFER_FED_37N-W30HZ_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	-29.87	3190517.58	1317021.27	40°12'05.792"N	104°49'04.548"W
Facility Reference Pt			3190547.45	1317021.50	40°12'05.792"N	104°49'04.163"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	ENSIGN 138 (RKB) to Facility Vertical Datum	4841.00ft
Horizontal Reference Pt	Slot	ENSIGN 138 (RKB) to Mean Sea Level	4841.00ft
Vertical Reference Pt	ENSIGN 138 (RKB)	ENSIGN 138 (RKB) to Mud Line at Slot (SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30))	4841.00ft
MD Reference Pt	ENSIGN 138 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	174.55°



Actual Wellpath Report

MILLENSIFER FED 37N-W30HZ AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-W30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-W30HZ AWB
Facility	SEC.30-T3N-R66W		

WELLPATH DATA (125 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	355.430	0.00	0.00	0.00	0.00	40°12'05.792"N	104°49'04.548"W	0.00	
13.00	0.000	355.430	13.00	0.00	0.00	0.00	40°12'05.792"N	104°49'04.548"W	0.00	Tie-On
113.00	0.260	355.430	113.00	-0.23	0.23	-0.02	40°12'05.794"N	104°49'04.548"W	0.26	Begin GYRO Surveys
213.00	0.270	31.060	213.00	-0.64	0.65	0.09	40°12'05.798"N	104°49'04.547"W	0.16	
313.00	0.130	307.400	313.00	-0.91	0.92	0.12	40°12'05.801"N	104°49'04.546"W	0.29	
413.00	0.290	253.860	413.00	-0.94	0.92	-0.22	40°12'05.801"N	104°49'04.551"W	0.24	
513.00	0.090	245.630	513.00	-0.87	0.82	-0.53	40°12'05.800"N	104°49'04.555"W	0.20	
613.00	0.140	235.450	613.00	-0.78	0.72	-0.70	40°12'05.799"N	104°49'04.557"W	0.05	
673.00	0.140	265.440	673.00	-0.75	0.67	-0.84	40°12'05.799"N	104°49'04.559"W	0.12	Tie-Into GYRO Surveys
780.00	0.400	215.900	780.00	-0.47	0.36	-1.19	40°12'05.796"N	104°49'04.563"W	0.31	Begin BHI+IFR MWD Surveys
872.00	1.000	59.700	871.99	-0.57	0.50	-0.68	40°12'05.797"N	104°49'04.557"W	1.50	
963.00	3.000	44.200	962.93	-2.44	2.61	1.66	40°12'05.818"N	104°49'04.527"W	2.26	
1053.00	4.200	51.600	1052.75	-5.76	6.35	5.89	40°12'05.855"N	104°49'04.472"W	1.43	
1145.00	5.400	50.300	1144.43	-10.03	11.21	11.86	40°12'05.903"N	104°49'04.395"W	1.31	
1236.00	6.700	40.700	1234.92	-16.12	17.97	18.62	40°12'05.970"N	104°49'04.308"W	1.81	
1327.00	8.500	38.900	1325.12	-24.60	27.22	26.30	40°12'06.061"N	104°49'04.209"W	2.00	
1419.00	9.600	39.100	1415.97	-34.93	38.47	35.41	40°12'06.172"N	104°49'04.092"W	1.20	
1510.00	10.100	40.900	1505.63	-45.85	50.39	45.42	40°12'06.290"N	104°49'03.963"W	0.65	
1601.00	10.500	47.600	1595.17	-56.34	62.01	56.77	40°12'06.405"N	104°49'03.816"W	1.39	
1693.00	11.400	46.100	1685.49	-67.03	73.97	69.51	40°12'06.523"N	104°49'03.652"W	1.03	
1784.00	12.000	48.400	1774.60	-78.21	86.49	83.07	40°12'06.647"N	104°49'03.477"W	0.83	
1875.00	11.300	43.400	1863.73	-89.65	99.25	96.27	40°12'06.773"N	104°49'03.307"W	1.35	
1971.00	11.000	49.000	1957.92	-101.17	112.09	109.64	40°12'06.900"N	104°49'03.135"W	1.17	
2065.00	11.800	47.900	2050.06	-112.12	124.42	123.54	40°12'07.021"N	104°49'02.956"W	0.88	
2160.00	13.000	42.100	2142.85	-125.13	138.86	137.91	40°12'07.164"N	104°49'02.771"W	1.82	
2254.00	13.000	38.900	2234.44	-139.83	154.93	151.64	40°12'07.323"N	104°49'02.594"W	0.77	
2350.00	13.200	37.500	2327.94	-155.57	172.03	165.09	40°12'07.492"N	104°49'02.420"W	0.39	
2445.00	13.000	40.600	2420.47	-170.93	188.75	178.65	40°12'07.657"N	104°49'02.246"W	0.77	
2538.00	12.500	47.200	2511.18	-184.29	203.53	192.84	40°12'07.803"N	104°49'02.063"W	1.65	
2633.00	13.300	49.400	2603.79	-196.82	217.63	208.68	40°12'07.943"N	104°49'01.859"W	0.99	
2729.00	13.300	48.700	2697.21	-209.64	232.10	225.36	40°12'08.086"N	104°49'01.644"W	0.17	
2823.00	13.000	48.000	2788.75	-222.27	246.31	241.34	40°12'08.226"N	104°49'01.438"W	0.36	
2918.00	13.600	45.100	2881.20	-235.73	261.35	257.20	40°12'08.375"N	104°49'01.233"W	0.94	
3012.00	12.900	43.200	2972.70	-249.69	276.80	272.21	40°12'08.527"N	104°49'01.040"W	0.88	
3106.00	12.800	43.200	3064.34	-263.50	292.03	286.52	40°12'08.678"N	104°49'00.855"W	0.11	
3201.00	12.300	42.300	3157.07	-277.26	307.19	300.53	40°12'08.828"N	104°49'00.675"W	0.57	
3295.00	11.300	40.400	3249.09	-290.40	321.61	313.24	40°12'08.970"N	104°49'00.511"W	1.14	
3390.00	10.400	44.200	3342.39	-302.44	334.85	325.25	40°12'09.101"N	104°49'00.356"W	1.21	
3484.00	9.400	41.800	3434.99	-313.14	346.65	336.28	40°12'09.218"N	104°49'00.214"W	1.15	
3579.00	9.000	48.400	3528.77	-322.79	357.37	347.01	40°12'09.323"N	104°49'00.076"W	1.19	
3674.00	8.400	50.200	3622.67	-331.09	366.74	357.90	40°12'09.416"N	104°48'59.935"W	0.69	
3769.00	7.600	48.000	3716.75	-338.75	375.39	367.90	40°12'09.502"N	104°48'59.807"W	0.90	
3863.00	7.000	38.500	3809.99	-346.57	384.03	376.08	40°12'09.587"N	104°48'59.701"W	1.43	
3957.00	7.100	36.900	3903.28	-354.99	393.16	383.14	40°12'09.677"N	104°48'59.610"W	0.23	
4051.00	6.200	38.600	3996.65	-362.93	401.77	389.79	40°12'09.762"N	104°48'59.524"W	0.98	



Actual Wellpath Report

MILLENSIFER FED 37N-W30HZ AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-W30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-W30HZ AWB
Facility	SEC.30-T3N-R66W		

WELLPATH DATA (125 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4147.00	4.600	46.000	4092.22	-369.06	408.50	395.80	40°12'09.829"N	104°48'59.447"W	1.81	
4242.00	2.500	43.600	4187.03	-372.79	412.65	399.97	40°12'09.870"N	104°48'59.393"W	2.22	
4337.00	0.500	340.600	4282.00	-374.55	414.54	401.26	40°12'09.888"N	104°48'59.377"W	2.44	
4432.00	0.600	289.900	4376.99	-375.16	415.10	400.65	40°12'09.894"N	104°48'59.384"W	0.50	
4528.00	0.700	238.900	4472.99	-375.13	414.97	399.68	40°12'09.893"N	104°48'59.397"W	0.59	
4718.00	1.000	227.000	4662.97	-373.61	413.24	397.47	40°12'09.876"N	104°48'59.425"W	0.18	
4906.00	0.600	92.200	4850.96	-372.48	412.08	397.25	40°12'09.864"N	104°48'59.428"W	0.79	
5097.00	1.100	121.400	5041.94	-371.25	411.08	399.82	40°12'09.854"N	104°48'59.395"W	0.34	
5287.00	0.900	358.500	5231.92	-371.64	411.63	401.34	40°12'09.860"N	104°48'59.376"W	0.93	
5477.00	1.400	229.300	5421.90	-371.79	411.60	399.54	40°12'09.859"N	104°48'59.399"W	1.10	
5667.00	0.800	51.700	5611.89	-371.17	410.91	398.82	40°12'09.853"N	104°48'59.408"W	1.16	
5856.00	1.100	47.900	5800.86	-372.97	412.95	401.20	40°12'09.873"N	104°48'59.377"W	0.16	
6047.00	0.800	200.800	5991.85	-372.87	412.93	402.09	40°12'09.873"N	104°48'59.366"W	0.97	
6236.00	0.800	206.100	6180.83	-370.56	410.51	401.04	40°12'09.849"N	104°48'59.379"W	0.04	
6331.00	0.800	183.400	6275.82	-369.34	409.25	400.71	40°12'09.836"N	104°48'59.384"W	0.33	
6426.00	0.500	179.100	6370.82	-368.27	408.18	400.67	40°12'09.826"N	104°48'59.384"W	0.32	
6458.00	0.400	188.400	6402.82	-368.03	407.93	400.66	40°12'09.823"N	104°48'59.384"W	0.39	
6489.00	1.700	193.800	6433.81	-367.49	407.37	400.53	40°12'09.818"N	104°48'59.386"W	4.20	
6521.00	3.200	196.200	6465.78	-366.21	406.05	400.17	40°12'09.805"N	104°48'59.391"W	4.70	
6553.00	4.800	198.100	6497.70	-364.15	403.92	399.51	40°12'09.784"N	104°48'59.399"W	5.02	
6584.00	6.700	193.700	6528.55	-361.25	400.93	398.68	40°12'09.754"N	104°48'59.410"W	6.29	
6616.00	9.900	188.000	6560.21	-356.81	396.40	397.85	40°12'09.709"N	104°48'59.421"W	10.31	
6663.00	15.700	186.000	6606.02	-346.64	386.06	396.62	40°12'09.607"N	104°48'59.436"W	12.37	
6710.00	23.100	182.300	6650.32	-331.25	370.50	395.59	40°12'09.453"N	104°48'59.450"W	15.95	
6757.00	25.400	179.600	6693.17	-312.07	351.21	395.29	40°12'09.263"N	104°48'59.454"W	5.43	
6805.00	28.700	178.700	6735.92	-290.32	329.38	395.62	40°12'09.047"N	104°48'59.449"W	6.93	
6852.00	31.500	177.900	6776.57	-266.80	305.83	396.33	40°12'08.814"N	104°48'59.440"W	6.02	
6899.00	34.900	177.300	6815.90	-241.10	280.12	397.41	40°12'08.560"N	104°48'59.426"W	7.27	
6946.00	38.700	176.300	6853.52	-212.98	252.01	398.99	40°12'08.282"N	104°48'59.406"W	8.18	
6994.00	43.700	179.900	6889.63	-181.44	220.43	399.99	40°12'07.970"N	104°48'59.393"W	11.53	
7041.00	47.000	182.000	6922.66	-148.23	187.01	399.42	40°12'07.640"N	104°48'59.400"W	7.71	
7089.00	50.900	180.300	6954.18	-112.27	150.83	398.71	40°12'07.282"N	104°48'59.410"W	8.55	
7136.00	54.200	180.600	6982.75	-75.17	113.52	398.41	40°12'06.914"N	104°48'59.413"W	7.04	
7185.00	57.600	181.400	7010.22	-34.85	72.96	397.70	40°12'06.513"N	104°48'59.423"W	7.07	
7232.00	60.800	180.400	7034.29	5.26	32.60	397.07	40°12'06.114"N	104°48'59.431"W	7.05	
7280.00	67.200	179.300	7055.32	48.20	-10.52	397.20	40°12'05.688"N	104°48'59.429"W	13.49	
7326.00	72.800	179.100	7071.04	91.27	-53.72	397.80	40°12'05.261"N	104°48'59.421"W	12.18	
7374.00	79.900	179.400	7082.36	137.72	-100.33	398.41	40°12'04.800"N	104°48'59.413"W	14.80	
7422.00	84.600	178.800	7088.84	185.12	-147.88	399.16	40°12'04.331"N	104°48'59.404"W	9.87	
7470.00	88.200	178.900	7091.85	232.88	-195.76	400.12	40°12'03.857"N	104°48'59.391"W	7.50	
7514.00†	89.178	178.982	7092.86	276.74	-239.74	400.93	40°12'03.423"N	104°48'59.381"W	2.23	7" Casing Point
7578.00	90.600	179.100	7092.98	340.54	-303.73	402.00	40°12'02.790"N	104°48'59.367"W	2.23	
7673.00	88.300	180.000	7093.89	435.17	-398.72	402.75	40°12'01.852"N	104°48'59.358"W	2.60	
7768.00	87.900	180.000	7097.04	529.69	-493.67	402.75	40°12'00.914"N	104°48'59.358"W	0.42	
7863.00	87.300	180.100	7101.02	624.17	-588.58	402.67	40°11'59.976"N	104°48'59.359"W	0.64	



Actual Wellpath Report

MILLENSIFER FED 37N-W30HZ AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-W30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-W30HZ AWB
Facility	SEC.30-T3N-R66W		

WELLPATH DATA (125 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7957.00	87.700	180.200	7105.12	717.63	-682.49	402.42	40°11'59.048"N	104°48'59.362"W	0.44	
8052.00	88.800	181.300	7108.02	812.03	-777.44	401.18	40°11'58.109"N	104°48'59.378"W	1.64	
8147.00	90.800	181.900	7108.35	906.30	-872.39	398.52	40°11'57.171"N	104°48'59.412"W	2.20	
8244.00	90.400	183.100	7107.34	1002.36	-969.29	394.29	40°11'56.213"N	104°48'59.467"W	1.30	
8338.00	90.000	181.200	7107.01	1095.53	-1063.22	390.77	40°11'55.285"N	104°48'59.512"W	2.07	
8433.00	89.100	181.300	7107.75	1189.88	-1158.20	388.69	40°11'54.347"N	104°48'59.539"W	0.95	
8527.00	89.500	179.800	7108.90	1283.36	-1252.18	387.79	40°11'53.418"N	104°48'59.551"W	1.65	
8623.00	90.100	179.000	7109.24	1379.01	-1348.17	388.80	40°11'52.469"N	104°48'59.538"W	1.04	
8718.00	89.800	179.400	7109.32	1473.70	-1443.17	390.12	40°11'51.531"N	104°48'59.521"W	0.53	
8812.00	91.400	178.800	7108.34	1567.39	-1537.15	391.60	40°11'50.602"N	104°48'59.502"W	1.82	
8907.00	91.700	178.900	7105.77	1662.09	-1632.09	393.51	40°11'49.664"N	104°48'59.477"W	0.33	
9002.00	90.700	178.800	7103.78	1756.80	-1727.05	395.41	40°11'48.725"N	104°48'59.452"W	1.06	
9097.00	89.300	178.900	7103.78	1851.53	-1822.03	397.32	40°11'47.787"N	104°48'59.428"W	1.48	
9192.00	89.600	179.200	7104.69	1946.23	-1917.01	398.89	40°11'46.848"N	104°48'59.408"W	0.45	
9287.00	89.600	179.900	7105.35	2040.87	-2012.00	399.64	40°11'45.909"N	104°48'59.398"W	0.74	
9382.00	88.900	179.800	7106.60	2135.45	-2107.00	399.89	40°11'44.971"N	104°48'59.395"W	0.74	
9477.00	88.400	179.500	7108.83	2230.05	-2201.97	400.47	40°11'44.032"N	104°48'59.387"W	0.61	
9572.00	89.700	180.100	7110.41	2324.64	-2296.95	400.80	40°11'43.094"N	104°48'59.383"W	1.51	
9666.00	89.900	180.600	7110.74	2418.15	-2390.95	400.23	40°11'42.165"N	104°48'59.391"W	0.57	
9761.00	89.800	181.100	7110.99	2512.58	-2485.94	398.82	40°11'41.226"N	104°48'59.409"W	0.54	
9855.00	90.000	179.400	7111.15	2606.11	-2579.93	398.41	40°11'40.297"N	104°48'59.414"W	1.82	
10045.00	89.700	179.900	7111.65	2795.36	-2769.93	399.57	40°11'38.420"N	104°48'59.399"W	0.31	
10235.00	88.800	180.700	7114.13	2984.38	-2959.91	398.57	40°11'36.542"N	104°48'59.412"W	0.63	
10331.00	89.400	179.400	7115.64	3079.93	-3055.89	398.49	40°11'35.594"N	104°48'59.413"W	1.49	
10522.00	88.900	179.000	7118.48	3270.27	-3246.85	401.16	40°11'33.707"N	104°48'59.379"W	0.34	
10618.00	89.500	178.300	7119.82	3366.02	-3342.81	403.42	40°11'32.758"N	104°48'59.350"W	0.96	
10714.00	90.400	177.300	7119.90	3461.86	-3438.74	407.10	40°11'31.810"N	104°48'59.302"W	1.40	
10808.00	89.900	177.400	7119.65	3555.75	-3532.64	411.45	40°11'30.882"N	104°48'59.246"W	0.54	
10902.00	90.500	179.200	7119.33	3649.54	-3626.59	414.24	40°11'29.954"N	104°48'59.210"W	2.02	
10997.00	90.400	179.200	7118.58	3744.23	-3721.58	415.56	40°11'29.015"N	104°48'59.193"W	0.11	
11186.00	89.800	179.900	7118.25	3932.51	-3910.57	417.05	40°11'27.148"N	104°48'59.174"W	0.49	
11281.00	89.100	180.200	7119.16	4027.06	-4005.57	416.96	40°11'26.209"N	104°48'59.175"W	0.80	
11376.00	89.800	180.700	7120.07	4121.55	-4100.56	416.22	40°11'25.270"N	104°48'59.185"W	0.91	
11567.00	89.700	183.000	7120.91	4310.99	-4291.45	410.05	40°11'23.384"N	104°48'59.264"W	1.21	Last BHI+IFR MWD Survey
11628.00	89.700	183.000	7121.23	4371.33	-4352.36	406.86	40°11'22.782"N	104°48'59.305"W	0.00	Projection to Bit



Actual Wellpath Report

MILLENSIFER FED 37N-W30HZ AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-W30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-W30HZ AWB
Facility	SEC.30-T3N-R66W		

HOLE & CASING SECTIONS - Ref Wellbore: MILLENSIFER FED 37N-W30HZ AWB Ref Wellpath: MILLENSIFER FED 37N-W30HZ AWP									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	13.00	728.00	715.00	13.00	728.00	0.00	0.00	0.58	-0.99
9.625in Casing Surface	13.00	728.00	715.00	13.00	728.00	0.00	0.00	0.58	-0.99
8.75in Open Hole	728.00	7522.00	6794.00	728.00	7092.96	0.58	-0.99	-247.74	401.07
7in Casing Intermediate	13.00	7514.00	7501.00	13.00	7092.86	0.00	0.00	-239.74	400.93
6.125in Open Hole	7514.00	11628.00	4114.00	7092.86	7121.23	-239.74	400.93	-4352.36	406.86

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
MILLENSIFER FED 4 PAD SECTION LINES		-2.00	0.40	-60.06	3190457.53	1317021.21	40°12'05.796"N	104°49'05.322"W	polygon
MILLENSIFER FED 37N-W30HZ BHL ON PLAT (460'FSL & 1620'FEL, SEC.30) REV-1		7081.00	-4377.36	417.68	3190968.90	1312647.45	40°11'22.535"N	104°48'59.166"W	point
MEEKS L 30-22 (NOBLE) 100' CIRCLE		7106.00	-2436.24	858.12	3191394.37	1314591.81	40°11'41.717"N	104°48'53.490"W	circle
MILLER 30-9K (NOBLE) 100' CIRCLE		7106.00	-2948.87	1351.15	3191891.31	1314083.01	40°11'36.651"N	104°48'47.137"W	circle
MILLENSIFER FED 37N-W30HZ BHL ON PLAT (460'FSL & 1620'FEL, SEC.30) REV-3		7110.00	-4377.36	417.68	3190968.90	1312647.44	40°11'22.535"N	104°48'59.166"W	point
MEEKS L 30-18D (NOBLE) 100' CIRCLE		7115.00	-837.88	-653.52	3189870.56	1316178.42	40°11'57.512"N	104°49'12.970"W	circle
MEEKS L 30-21D (NOBLE) 100' CIRCLE		7115.00	-2037.03	-633.06	3189900.23	1314979.52	40°11'45.662"N	104°49'12.706"W	circle
FREEWAY L 30-10 JI (NOBLE) 100' CIRCLE		7116.00	-2661.21	-244.06	3190294.01	1314358.38	40°11'39.494"N	104°49'07.693"W	circle
MILLENSIFER 30-10K (NOBLE) 100' CIRCLE		7121.00	-3174.56	521.34	3191063.30	1313850.95	40°11'34.421"N	104°48'57.830"W	circle
MILLENSIFER FED 37N-W30HZ BHL ON PLAT (460'FSL & 1620'FEL, SEC.30) REV-2		7121.00	-4377.36	417.68	3190968.90	1312647.44	40°11'22.535"N	104°48'59.166"W	point
MILLENSIFER 30-15K (NOBLE) 100' CIRCLE		7218.00	-4076.81	212.95	3190761.87	1312946.40	40°11'25.505"N	104°49'01.804"W	circle
MILLENSIFER FED 37N-W30HZ LAND BOX		7298.00	0.00	0.00	3190517.58	1317021.27	40°12'05.792"N	104°49'04.548"W	polygon
MILLENSIFER FED 4 PAD HARDLINES (460'SETBACKS)		7298.00	0.40	-60.06	3190457.53	1317021.21	40°12'05.796"N	104°49'05.322"W	polygon



Actual Wellpath Report

MILLENSIFER FED 37N-W30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-W30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-W30HZ AWB
Facility	SEC.30-T3N-R66W		

WELLPATH COMPOSITION - Ref Wellbore: MILLENSIFER FED 37N-W30HZ AWB Ref Wellpath: MILLENSIFER FED 37N-W30HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	673.00	Generic gyro - continuous (Standard)	GYRODATA SURVEYS <113-673>	MILLENSIFER FED 37N-W30HZ AWB
673.00	7470.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <780-7470>	MILLENSIFER FED 37N-W30HZ AWB
7470.00	11567.00	OnTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 6 1/8" HOLE <7578-11567>	MILLENSIFER FED 37N-W30HZ AWB
11567.00	11628.00	Blind Drilling (std)	Projection to bit	MILLENSIFER FED 37N-W30HZ AWB



Actual Wellpath Report
 MILLENSIFER FED 37N-W30HZ AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#03 MILLENSIFER FED 37N-W30HZ (472'FNL & 2039'FEL, SEC.30)
Area	COLORADO	Well	MILLENSIFER FED 37N-W30HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	MILLENSIFER FED 37N-W30HZ AWP
Facility	SEC.30-T3N-R66W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	355.430	13.00	Tie-On
113.00	0.260	355.430	113.00	Begin GYRO Surveys
673.00	0.140	265.440	673.00	Tie-Into GYRO Surveys
780.00	0.400	215.900	780.00	Begin BHI+IFR MWD Surveys
7514.00	89.178	178.982	7092.86	7" Casing Point
11567.00	89.700	183.000	7120.91	Last BHI+IFR MWD Survey
11628.00	89.700	183.000	7121.23	Projection to Bit